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REMARKS

At the time of the *Action*, Claims 27-45 were pending in this application. Claims 29 and 30 are canceled without prejudice. Claims 27, 31, 34, 36, 40, and 41 are hereby amended. Thus, Claims 27-28 and 31-45 are currently pending. No new matter is added. A complete and detailed response follows herewith.

I. ALLOWABLE SUBJECT MATTER

In the *Action*, the Examiner noted that Claims 43-45 are allowed.

II. REJECTIONS UNDER 35 USC 103(a): OBVIOUSNESS

A. Claims 27-28, 39-40, and 42 are rejected under 35 U.S.C. §103(a) as being unpatentable over Shin (US 5,523,187) [*Shin*] taken with Van Dijk (US 5,847,797) [*Van Dijk*] in view of Kim (US 5,909,035) [*Kim*].

In particular, the Examiner states:

Relative to claims 27, 39-40 and 42, Shin teaches the fabrication of a liquid crystal display device (col.2, lines 30-46); Shin further teaches, a flat panel display comprising a first substrate; and a gate driving signal transmission pattern formed on the first substrate and in electrical communication with the plurality of gate lines for transferring gate signals. (col. 1, lines 19-26 and Fig. 1).

[*Action*, page 2, *Emphasis added*]

In response, Applicants respectfully point out that independent Claim 27, as amended, recites in pertinent part:

"a first gate driving signal transmission pattern formed on the first substrate and in electrical communication with the plurality of gate lines for transferring gate signals, wherein the first gate driving signal transmission pattern includes an input terminal being formed substantially adjacent to a data line group and being in electrical communication with a first external device; an output terminal being formed substantially adjacent to a gate line group and being in electrical communication with a second external device; and a main signal pattern arranged between and in electrical communication with the input terminal and the output terminal."

Applicants respectfully submit that neither *Shin*, nor *Van Dijk*, nor *Kim*, alone or in any combination, teach or suggest all of the recited claim limitations of amended independent Claim 27, and of Claims 28 and 31-39 which properly depend from Claim 27.

Also, Applicants respectfully point out that independent Claim 40, as amended, recites in pertinent part: *"a first signal transmission pattern formed in a peripheral region of the first substrate and in electrical communication with an external device, and including an input terminal formed substantially adjacent to a data line group and an output terminal formed substantially adjacent to a gate line group."*

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Applicants respectfully submit that neither *Shin*, nor *Van Dijk*, nor *Kim*, alone or in any combination, teach or suggest all of the recited claim limitations of amended independent Claim 40, and of Claims 41-42, which properly depend from Claim 40. Because the cited art does not support a *prima facie* case of obviousness under 5 U.S.C. §103(a), Applicants respectfully submit that Claims 27-28, 39-40, and 42 are allowable.

B. Claims 29-30 and 36-38 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Shin* taken with *Van Dijk* in view of *Kim* as applied to Claim 28 above, and further in view of *Uchiyama et al.* (USP 5,737,272) [*Uchiyama*].

In response, Applicants respectfully submit that, as with the rejection in Section II.A, neither *Shin*, nor *Van Dijk*, nor *Kim*, nor *Uchiyama*, alone or in any combination, teach or suggest all of the recited claim limitations of amended independent Claim 27, or of dependent Claim 28, from which Claims 36-38 properly depend. Because the cited art does not support a *prima facie* case of obviousness under 5 U.S.C. §103(a), Applicants respectfully submit that Claims 36-38 are allowable.

C. Claims 31 and 34-35 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Shin* taken with *Van Dijk* in view of *Kim* and further in view of *Uchiyama et al.* as applied to Claim 30, and further in view of *Nunomura et al.* (US 4,757,235) [*Nunomura*].

In response, Applicants respectfully submit that, as with the rejection to the Claims in Sections II.A and II.B, above, neither *Shin* nor *Van Dijk* nor *Kim* nor *Uchiyama* nor *Nunomura*, alone or in any combination, teach or suggest all of the recited claim limitations of amended independent Claim 27 or of dependent Claim 28, from which Claims 31 and 34-35 properly depend. Because the cited art does not support a *prima facie* case of obviousness under 5 U.S.C. §103(a), Applicants respectfully submit that Claims 31 and 34-35, as respectively amended, are allowable.

D. Claims 32-33 are rejected under 35 U.S.C. §103(a) as being unpatentable over *Shin* taken with *Van Dijk* in view of *Kim* and further in view of *Uchiyama*, taken with *Nunomura* as applied to claim 31, and further in view of *Maurinus, et al.* (US 5,358,412). [*Maurinus*].

In response, Applicants respectfully submit that, as with the rejection to the Claims in Sections II.A, II.B, and II.C, above, neither *Shin* nor *Van Dijk* nor *Kim* nor *Uchiyama* nor *Nunomura* nor *Maurinus*, alone or in any combination, teach or suggest all of the recited claim limitations of amended independent Claim 27 or of dependent Claims 28 and 31, from which Claims 32-33 properly depend. Because the cited art does not support a *prima facie* case of obviousness under 5 U.S.C. §103(a), Applicants respectfully submit that Claims 32-33 are allowable.

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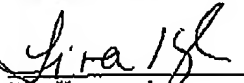
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In view of the foregoing, Applicants respectfully submit that Claims 27-28 and 31-42 are in proper form for allowance, and request that all rejections be reconsidered and withdrawn. A timely Notice of Allowance for all Claims is kindly solicited.

The Examiner is invited to call Applicants' attorney at (949) 752-7040 with any questions regarding this application.


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I hereby certify that this paper is being facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.


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October 20, 2006

Respectfully submitted,


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